BRUHATH BANGALORE MAHANAGARA PALIKE

YALAHANKA ELECTRICAL DIVISION

E MEASUREMENT BOOK

Name of work:- Providing, laying and correcting Aerial Bunched Cables/damaged poles/panel boards to Telecom layout double road,via railway gate to MCHS layout double road in Ward No-6.

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PRE MEASUREMENT BOOK

Name of work: :- Providing, laying and correcting Aerial Bunched Cables/damaged poles/panel boards to Telecom layout double road,via railway gate to MCHS layout double road in Ward No-6 .

Name of Contractror of nature of Agency:- Sri Pradeep Kumar S.N. Pro of M/S. Ganga Enterprises

Job Code No:- 006-20-000169

Ref no and Date of commencement of work:-EE/Ele/YZ/WO/000015/20-21 Date:16/06/2020

Measurement Book No: 2570 | 2019-20. **Page No:** 256944 to 6944

Bill NO :-

Sl. No.	Description of item		Unit	Present Measurements		
				Qty	Tender Full Rate	Cost
1	Digging of Pits 1.8 mtr depth for errection of 9 to 10mtr Long Steel/RCC/PSC supports as per approved Drawing.Ordinary Soil		Nos	5	378.00	1890.00
2	Erection of steel supports 9.0 to 10.00 mtr long such as 22.68 kg (50 lbs) Rail, 27.22 kg (60 Lbs) Rail IBeam of sizes 200x100mm, 175x90 mm, 125x100mm. Fabricates poles tubular poles in pits of 1.8 mtrDepth, Aligning, Refilling with soil and ramming asapproved drawing		Nos	5	304.00	1520.00
3	Pole concreting with CC 1:2:4 (without coping) f) 8mtrs support (400x400x1500mm)		Nos	5	982.00	4910.00
4	Any Dismantling work 90% of the corresponding erection charges(304x90%=273.6)		Nos	5	250.00	1250.00
1	GE/05/EFR/83/S	Near Khajaria Mantrana Jakkur double road				
2	New Pole	Opp Khajaria Mantrana Jakkur double road				
3	New Pole	Near Ovion Pvt Ltd, Jakkur double road				
4	VE/05/EFR/140/S	Opp Pushpak home decorator Jakkur double road				
5	New Pole	Near Mahendra car show room Jakkur double road				
5	Transportation using 7.5/10 Tons Lorry Rs. 23 per Kms subjected to a minimum of Rs. 1200/-per day (shifting of Panel boards & Poles)		Nos	4	1200.00	4800.00
6	Supplying of 1.1KV grade Aerial Bunched Cable Stranded & Compacted Aluminum Phase Conductor, and Stranded Messenger Conductor with all aluminum Alloy, Phase Conductor is insulated with XLPE Compound, insulated Messenger with specified IS-14255:1995 & confirming to GTP of GROUP-A.2 X 25 + 1 X 25 SQ.MM KPWD ELE SR 2014-15		Per Mtr	1346	113.00	152098.00
7	Stringing of 1.1kv LT Arial Bunched Cable, BESCOM SR		Per Mtr	1346	10.00	13460.00
	Panel board Jakkur burrial ground TO New Bangalore granite Jakkur circle					
1	VE/05/EFR/100/S to VE/05/EFR/101/S	30 Mtrs				
2	VE/05/EFR/101/S to VE/05/EFR/102/S	30 Mtrs				
3	VE/05/EFR/102/S to VE/05/EFR/103/S	30 Mtrs				
4	VE/05/EFR/103/S to VE/05/EFR/104/S	30 Mtrs				
5	VE/05/EFR/104/S to VE/05/EFR/105/S	30 Mtrs				

4/12/20

6	VE/05/EFR/105/S to VE/05/EFR/106/S	30 Mtrs				
7	VE/05/EFR/106/S to VE/05/EFR/107/S	30 Mtrs				
8	VE/05/EFR/107/S to VE/05/EFR/108/S	30 Mtrs				
9	VE/05/EFR/108/S to VE/05/EFR/109/S	30 Mtrs				
10	VE/05/EFR/109/S to VE/05/EFR/110/S	30 Mtrs				
11	VE/05/EFR/110/S to VE/05/EFR/111/S	30 Mtrs				
12	VE/05/EFR/111/S to VE/05/EFR/112/S	30 Mtrs				
13	VE/05/EFR/112/S to VE/05/EFR/113/S	30 Mtrs				
14	VE/05/EFR/113/S to VE/05/EFR/114/S	30 Mtrs				
15	VE/05/EFR/114/S to VE/05/EFR/115/S	30 Mtrs				
	Near Sri Krishna sagar hotel TO Panel board Mahendra Show room Jakkur					
16	VE/05/EFR/116/S to VE/05/EFR/117/S	30 Mtrs				
17	VE/05/EFR/117/S to VE/05/EFR/118/S	30 Mtrs				
18	VE/05/EFR/118/S to VE/05/EFR/119/S	30 Mtrs				
19	VE/05/EFR/119/S to VE/05/EFR/120/S	30 Mtrs				
20	VE/05/EFR/120/S to VE/05/EFR/121/S	30 Mtrs				
21	VE/05/EFR/121/S to VE/05/EFR/122/S	30 Mtrs				
22	VE/05/EFR/122/S to VE/05/EFR/123/S	30 Mtrs				
23	VE/05/EFR/123/S to VE/05/EFR/124/S	30 Mtrs				
24	VE/05/EFR/124/S to VE/05/EFR/125/S	30 Mtrs				
25	VE/05/EFR/125/S to VE/05/EFR/126/S	30 Mtrs				
26	VE/05/EFR/126/S to VE/05/EFR/127/S	30 Mtrs				
27	VE/05/EFR/127/S to VE/05/EFR/128/S	30 Mtrs				
28	VE/05/EFR/128/S to VE/05/EFR/129/S	30 Mtrs				
29	VE/05/EFR/129/S to VE/05/EFR/130/S	30 Mtrs				
30	VE/05/EFR/130/S to Bescom Span pole	30 Mtrs				
	Panel board Mahendra Show room TO Doosan Machine tools India PVT Ltd Jakkur					
31	Bescom Span pole toVE/05/EFR/131/S	30 Mtrs				
32	VE/05/EFR/131/S to VE/05/EFR/132/S	30 Mtrs				
33	VE/05/EFR/132/S to VE/05/EFR/133/S	30 Mtrs				
34	VE/05/EFR/133/S to VE/05/EFR/134/S	30 Mtrs				
35	VE/05/EFR/134/S to VE/05/EFR/135/S	30 Mtrs				
36	VE/05/EFR/135/S to VE/05/EFR/136/S	30 Mtrs				
37	VE/05/EFR/136/S to VE/05/EFR/137/S	30 Mtrs				

Assistant Executive Engineer (E)
BBMP, Bangalore

38	VE/05/EFR/137/S to VE/05/EFR/138/S	30 Mtrs				
39	VE/05/EFR/138/S to VE/05/EFR/139/S	30 Mtrs				
40	VE/05/EFR/139/S to VE/05/EFR/140/S	30 Mtrs				
41	VE/05/EFR/140/S to VE/05/EFR/141/S	30 Mtrs				
42	VE/05/EFR/141/S to VE/05/EFR/142/S	30 Mtrs				
43	VE/05/EFR/142/S to VE/05/EFR/143/S	30 Mtrs				
44	VE/05/EFR/143/S to VE/05/EFR/144/S	30 Mtrs				
45	VE/05/EFR/144/S to VE/05/EFR/145/S	30 Mtrs				
46	VE/05/EFR/145/S to VE/05/EFR/146/S	30 Mtrs				
47	VE/05/EFR/146/S to VE/05/EFR/147/S	30 Mtrs				
48	VE/05/EFR/147/S to VE/05/EFR/148/S	30 Mtrs				
	Total 1350 Mtrs					
8	Piercing connector suitable for 16 sqmm - 95 sqmm AB cable -steel light connection. Bescom SR of 2010-11, Page no 16 of 34, Serial no 51.12.		Each	5	47.00	235.00
9	Suspension clamp assembly 25 to 95 sqmm bare messenger. Bescom SR of 2010-11, Page no 16 of 34, Sl no 51.17.		Each	5	180.00	900.00
10	Dead end clamp / Anchor clamp assembly 25 to 95 sqmm bare messenger, Bescom SR of 2010-11, Page no 16 o 34, Sl no 51.16.		Each	4	120.00	480.00
11	Universal Hook and Bolts and Nuts, Bescom SR of 2010-11, Page no 16 of 34, Sl no. 51.15.		Each	2	280.00	560.00
12	Erection of Suspension Clamp - 25 to 95 sqmm bare messenger. Bescom SR of 2010-11, Page No 21 of 27, Sl No 26.6.		Each	5	35.00	175.00
13	Painting of existing street light pole after scrapping the old paint and painted with suitable colour enamel/Silver paint including coping/footing of the pole .8Mtr and above street light pole.		Nos	5	500.00	2500.00
14	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) THREE POLE 100Amps 25kA.26/5.14.1		Each	2	3530.00	7060.00
15	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A.4 core 16 sqmm40/6.4.4		Mtrs	77	110.00	8470.00
16	Labour charges for laying of 1.1 KV class UG cable when supplied agency in existing trench GI pipe / stoneware pipe / on wall /on pole as required. I. In existing trench/duct. 6 sqmm to 16 sqmm		Mtrs	77	15.00	1155.00
1	NTI L/o Railway under pass Sahakaranagara Ward No-09	30 Mtrs				
2	Ward No 08 Hightension Park Panel to pole	47 Mtrs				
17	Digging of trench of 0.6 m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc.,complete.41/6.6.1		Mtrs	65	45.00	2925.00

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18	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 7tanks treatment with powder coated paint and finally finished with approved colour etc., complete.16SWG KPWD ELE SR Page-30/5.42.2	sq.cms	70000	0.25	17500.00
	75x75Cmsx3 Sides=16875 Sqcms 22.5x75Cmsx4 Sides=6750 Sq Cms 82.5x32.5Cmsx2 Sides=5362 Sqcms Total 28987 Sqcms x 3 Panels =86961 Sqcms				
19	Wiring for lighting/power circuit using one of PVC insulated 1100v grade, multis and Copper conductor single core cable in open or consealed system of wiring.I Group A Materials.6 sqmm 6/2.3.3	Mtrs	97	45.00	4365.00
20	Thiristor based single/ Three phase smart street light control and monitoring system Remotely control and and monitorable smart street light system by using web or mobile application .smart control system has hardware ruggedness over field issues like line cross, line short, lighting and any other irregularities in voltage. It has some features like 1.Remote lighting management.2.Precise lighting turnoff.3.Load ballancing.4.Load power regulation.5.Status tracking. It works on the basis of some of these features 1) Main Control Unit (Mother board) : Handles controlling , data handling and other communication process. 2) Communication unit: GSM/GPRS quad bandwith RS232 interface wireless communication unit 3) Gate Driver Unit: Firing angle controllable board for driving the thyristor 4) Switching Thyristor: SCR 110 AMPS dual thyristor modules for switching 5)Embedded Firmware: Firmware to control , handle , process the data and communicate it wirelessly.6) Metal Enclosure : IP66 weather prof metal enclosure. 7) transformers: Customized step down transformers for various purposes.8) Wiring and other device assembly components.	No	2	35200.00	70400.00
1	Vinayaka Nagara gate Bagaluru main road (Tubular Poles)				
2	Near Shiva Mandir Shivapura Bagaluru main road (Tubular Poles)				
	Total Rs				**296653.00**
	Add GST Item No 06 to 19 Rs 211883 @ 12%				25425.96
	Total Rs				**322078.96**

CERTIFICATE:

1.This is certify that the work done is saticefactorily.
2.This is certify that the bill amount calimed in this bill does not claimed in any of the previous bill.

Junior Engineer(Elec)
Yalahanka Division

Asst.Exe.Engineer(Elec)
Yalahanka Division

Executive Engineer
Electrical Division
Yelahanka Zone BBMP
Byatarayanapura, Bangalore-92